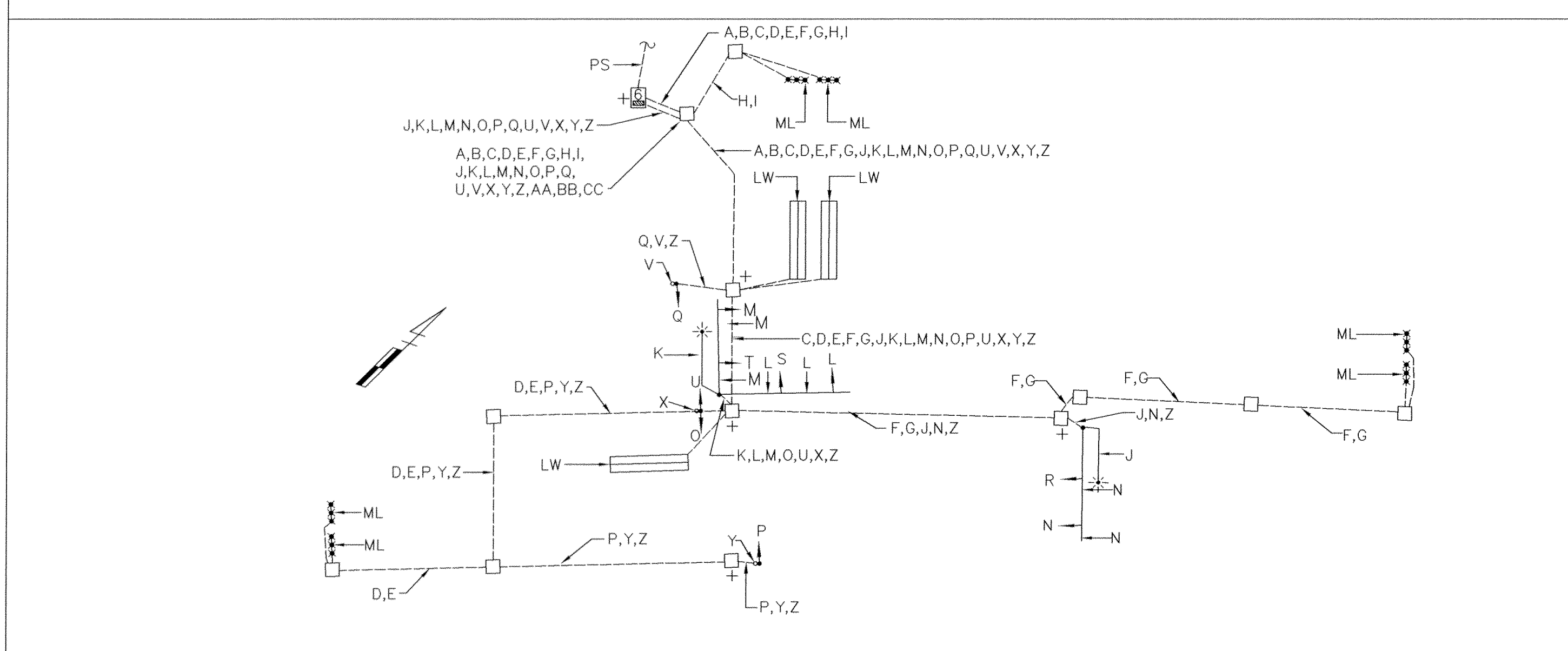
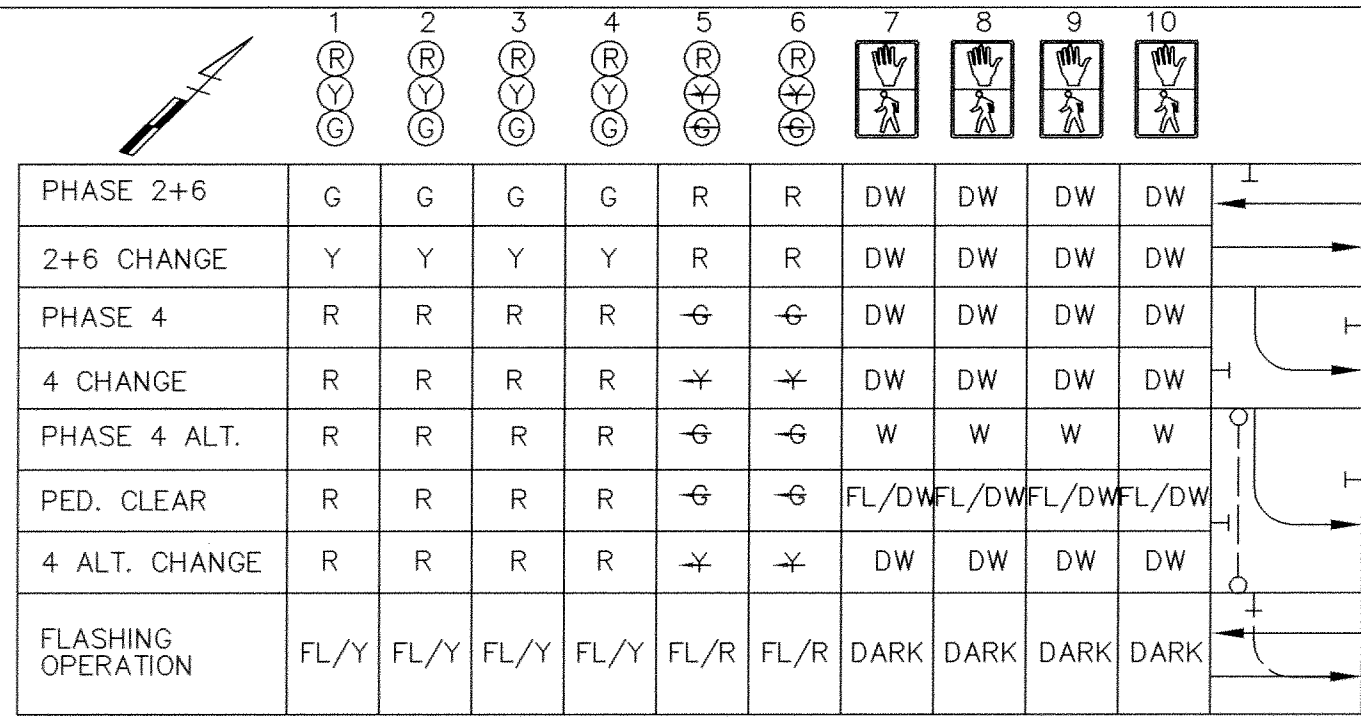


- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./50 FT. ARMS, TRAFFIC SIGNAL HEADS, SIGNS, AND 20 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (NOTE: 1-2 IN. SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND.)
- B. INSTALL 27 FT. STEEL POLE WITH SINGLE 38' MAST ARM, TRAFFIC AND PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSHBUTTON, R10-3c SIGN, SIGNS AND 20 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (NOTE: 1-2 IN. SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND.)
- C. INSTALL 10 FT. STEEL PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD(S), PEDESTRIAN PUSH BUTTON, AND R10-3c SIGN. (NOTE: 1-2 IN. SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND.)
- D. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE: 2-2 IN., AND 2-4 IN. SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE BEND.)
- E. INSTALL HANDHOLE.
- F. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- G. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- H. INSTALL 2 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
- I. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- J. INSTALL R3-4 (24 IN. X 24 IN.) "NO U TURN" SIGN ON ONE 4 IN. X 4 IN. PRESSURE TREATED WOOD POST.
- K. INSTALL 4 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- L. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- M. INSTALL MICRO-LOOP PROBE SET.
- N. PROPOSED ELECTRICAL SERVICE.
- O. REMOVE AND RESET EXISTING R5-9 (36 IN. X 24 IN.) "WRONG WAY" SIGN.
- P. INSTALL W3-3 SIGN (48 IN. X 48 IN.) AND "NEW" PANEL (30 IN. X 30 IN.) WITH FLAGS ON TWO 4 IN. X 4 IN. PRESSURE TREATED WOOD POSTS APPROXIMATELY 540 FEET IN ADVANCE OF INTERSECTION ALONG ST. CHARLES PARKWAY.
- Q. INSTALL W11-2 (30 IN. X 30 IN.) PEDESTRIAN CROSSING SIGN AND M6-2 (21 IN. X 15 IN.) PLATE ON ONE 4 IN. X 6 IN. PRESURE TREATED WOOD POST.
- R. REMOVE AND RESET EXISTING R5-1 (36 IN. X 36 IN.) "DO NOT ENTER" SIGN.
- S. INSTALL 24 IN. WHITE PAINTED STOPLINE.
- T. INSTALL CROSSWALK USING 24 IN. WHITE PAINTED HATCHING PATTERN AT 45° OUTLINE WITH 12 IN. PAINTED STRIPE.
- U. INSTALL W3-3 SIGN (48 IN. X 48 IN.) AND "NEW" PANEL (30 IN. X 30 IN.) WITH FLAGS ON TWO 4 IN. X 4 IN. PRESSURE TREATED WOOD POSTS APPROXIMATELY 390 FEET IN ADVANCE OF INTERSECTION ALONG SMALLWOOD DRIVE.
- V. INSTALL R3-BLTT (48 IN. X 30 IN.) LANE USE CONTROL SIGN ON TWO 4 IN. X 4 IN. PRESSURE TREATED WOOD POSTS.
- W. INSTALL R3-BTRT (48 IN. X 30 IN.) LANE USE CONTROL SIGN ON TWO 4 IN. X 4 IN. PRESSURE TREATED WOOD POSTS.
- X. INSTALL R3-7R (30 IN. X 30 IN.) LANE USE CONTROL SIGN ON ONE 4 IN. X 4 IN. PRESSURE TREATED WOOD POST.
- Y. INSTALL W16-1 (18 IN. X 18 IN.) OBJECT MARKER SIGN ON ONE 4 IN. X 4 IN. PRESSURE TREATED WOOD POST.
- Z. REMOVE EXISTING R1-1 STOP SIGN.
- AA. TRANSFORMER VAULT BY ELECTRICAL COMPANY
- BB. INSTALL R3-7L (30 IN. X 30 IN.) LANE USE CONTROL SIGN ON ONE 4 IN. X 4 IN. PRESSURE TREATED WOOD POST.
- CC. REMOVE AND RESET EXISTING R3-7R (30 IN. X 30 IN.) LANE USE CONTROL SIGN.
- DD. INSTALL 3 IN. SCHEDULE 40, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-104.00 TO MD-104.00-30. (GENERAL NOTES)  
STANDARD NO. MD-104.18-01 (SHOULDER WORK)  
STANDARD NO. MD-104.48-01 (TURN BAY CLOSURE)  
STANDARD NO. MD-104.49-01 (SHOULDER WORK-SHORT TERM)  
STANDARD NO. MD-104.71 (MARKING OPERATION)



A B C D E F G H I	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED	J K L M N	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)	V X Y	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	LW ML PS + -	LOOP WIRE (NO. 14 A.W.G.) MICRO-LOOP PROBE PROPOSED ELECTRICAL SERVICE 3/4 IN. X 10 FT. GROUND ROD
	MICRO-LOOP PROBE LEAD-IN	O P Q R S T U	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	AA BB CC	1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

REVISIONS						APPROVALS	REVISIONS
						CHIEF, SIGNAL DESIGN SECTION	
						ASST. DISTRICT ENGINEER, TRAFFIC	
						CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
						DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

**RETTEW**  
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THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL ARMSTRONG DISTRICT ENGINEER PHONE: (410) 841-5450	THE POWER COMPANY REPRESENTATIVE IS: MR. WILLIAM LAWMAN ASSISTANT DISTRICT MANAGER SMECO P.O. BOX 248 WHITE PLAINS, MD 20695 (301) 934-2201
MR. LAWRENCE E. ELLIOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-5450	MR. RICHARD L. DAFF, SR. CHIEF: TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630
MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-5450	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - UTILITY PHONE: (410) 841-5450
THE CHARLES COUNTY GOVERNMENT CONTACT IS: MR. EDWARD M. GORHAM, ENGINEER III CAPITAL IMPROVEMENT PROJECTS, CHARLES COUNTY COUNTY GOVERNMENT BUILDING P.O. BOX B La PLATA, MD 20646 (301) 645-0620	

16,27  
W11-2  
(30" X 30")  
M6-2  
(21" X 15")

13,17,24  
W3-3  
(48" X 48")  
W/ "NEW" PANEL  
(30" X 30")  
AND FLAGS

18,19  
R3-4  
(24" X 24")

15  
D3-2  
(VARIABLE X 16")

25  
RIGHT LANE  
MUST  
TURN RIGHT  
R3-7R  
(30" X 30")

26,29  
W16-1  
(18" X 18")

20  
D3-2  
(VARIABLE X 16")

23  
D3-2  
(VARIABLE X 16")

11  
D3-2  
(VARIABLE X 16")

14  
LEFT LANE  
MUST  
TURN LEFT  
R3-7L  
(30" X 30")

7  
ONLY  
R3-8LTT  
(48" X 30")

8  
ONLY  
R3-8TTR  
(48" X 30")

9  
ONLY  
R3-5L  
(30" X 36")

THIS PROJECT INVOLVES THE INSTALLATION OF A FULLY ACTUATED TRAFFIC SIGNAL AND STREET LIGHTING AT THE INTERSECTION OF SMALLWOOD DRIVE AND ST. CHARLES PARKWAY IN CHARLES COUNTY. THE PROJECT ALSO INVOLVES GEOMETRIC IMPROVEMENTS, INCLUDING THE LENGTHENING OF THE NORTHBOUND LEFT TURN LANE ON ST. CHARLES PARKWAY AND THE ADDITION OF A SECOND EASTBOUND LEFT TURN LANE ON SMALLWOOD DRIVE. ST. CHARLES PARKWAY IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULLY  
ACTUATED MODE WITH THE ST. CHARLES PARKWAY APPROACHES  
RUNNING CONCURRENTLY.

INSTALL A FULLY ACTUATED, EIGHT-PHASE CONTROLLER WITH THREE (3) FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH TELEMETRY PANEL AND SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

ST. CHARLES PARKWAY AT SMALLWOOD DRIVE

DATE: <u>6-97</u>	DRAWN BY: <u>S. LOOSE</u>	F.A.P. NO. _____	PLAN SHEET NO. <u>TS-3722</u>	SHEET NO. <u>2</u> OF <u>3</u>
SCALE: <u>1"=20'</u>	DESIGNED BY: <u>L. BANKERT</u>	S.H.A. NO. _____		
APPROVED BY: _____	CHECKED BY: <u>B. BASHORE</u>	COUNTY <u>CHARLES</u>		

#22